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1 A fine-grained access control system for XML documents

Ernesto Damiani, Sabrina De Capitani di Vimercati, Stefano Paraboschi, Pierangela Samarati
May 2002 ACM Transactions on Information and System Security
(TISSEC), Volume 5 Issue 2
Publisher: ACM

Full text available: 📄 pdf(330.60 KB) Additional Information: full citation, abstract, references, cited by, index terms

Web-based applications greatly increase information availability and ease of access, which is optimal for public information. The distribution and sharing of information via the Web that must be accessed in a selective way, such as electronic commerce ...

Keywords: Access control, World Wide Web, XML documents, authorizations specification and enforcement

2 Lazy XML processing

Markus L. Noga, Steffen Schott, Welf Löwe
November 2002 DocEng '02: Proceedings of the 2002 ACM symposium on Document engineering
Publisher: ACM

Full text available: 📄 pdf(197.96 KB) Additional Information: full citation, abstract, references, cited by, index terms

This paper formalizes the domain of tree-based XML processing and classifies several implementation approaches. The lazy approach, an original contribution, is presented in depth. Proceeding from experimental measurements, we derive a selection strategy ...

Keywords: XML, document object model, lazy evaluation, parsing

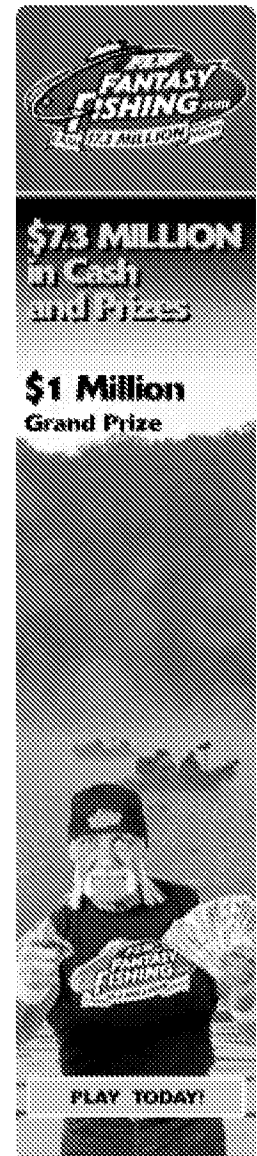### 3 Finding errors in components that exchange xml data

Mark Grechanik
November 2007 ASE '07: Proceedings of the twenty-second IEEE/ACM international conference on Automated software engineering
Publisher: ACM

Full text available: 📄 pdf(570.33 KB) Additional Information: full citation, abstract, references, index terms

Two or more components (e.g., objects, modules, or programs) interoperate when they exchange data, such as XML data. Using *Application Programming Interface (API)* calls exported by XML parsers remains a primary mode of accessing and manipulating ...

Keywords: XML schema, bisimulation, interoperability, program analysis, schema validator, symbolic execution

4   Querying and maintaining a compact XML storage
Raymond K. Wong, Franky Lam, William M. Shui
May 2007 WWW '07: Proceedings of the 16th international conference on
        World Wide Web
Publisher: ACM

Full text available: pdf(362.02 KB)   Additional Information: full citation, abstract, references,
                                                          index terms

As XML database sizes grow, the amount of space used for storing the data and auxiliary data structures becomes a major factor in query and update performance. This paper presents a new storage scheme for XML data that supports all navigational operations ...

Keywords: XML, compact storage, query processing, storage optimization

5   Querying XML streams
Vanja Josifovski, Marcus Fontoura, Attila Barta
April 2005 The VLDB Journal — The International Journal on Very Large
        Data Bases,   Volume 14 Issue 2
Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(242.03 KB)   Additional Information: full citation, abstract, references,
                                                          cited by

Efficient querying of XML streams will be one of the fundamental features of next-generation information systems. In this paper we propose the TurboXPath path processor, which accepts a language equivalent to a subset of the for-let-where constructs ...

6   Static optimization of XSLT stylesheets: template instantiation
optimization and lazy XML parsing
Manaka Kenji, Sato Hiroyuki
November 2005 DocEng '05: Proceedings of the 2005 ACM symposium on
                Document engineering
Publisher: ACM

Full text available: pdf(178.55 KB)   Additional Information: full citation, abstract, references,
                                                          index terms

The increasing popularity of XSLT brings up the requirement of more efficient performance. In this paper, we propose two optimization techniques based on template caller-callee analysis. One is the template instantiation optimization which analyzes a ...

Keywords: XSLT, lazy evaluation, optimization, saxon

7   Static validation of XSL transformations
Anders Møller, Mads Østerby Olesen, Michael I. Schwartzbach
August 2007 ACM Transactions on Programming Languages and Systems
        (TOPLAS),   Volume 29 Issue 4
Publisher: ACM

Full text available: pdf(865.48 KB)   Additional Information: full citation, abstract, references,
                                                          index terms

XSL Transformations (XSLT) is a programming language for defining transformations among XML languages. The structure of these languages is

formally described by schemas, for example using DTD or XML Schema, which allows individual documents to be validated. ...

Keywords: DTD, XML Schema, XSLT, static analysis

8   Enabling XML storage from Java applets in a GUI programming course
Jesse M. Heines
June 2003 ACM SIGCSE Bulletin, Volume 35 Issue 2
Publisher: ACM

Full text available: pdf(284.08 KB) Additional Information: full citation, abstract, references

XML, the Extensible Markup Language, is widely used in graphical user interface (GUI) programming today to both specify user interfaces and to hold the data displayed in visual components. It is relatively straightforward for Java applets to read and ...

9   Evaluating static analysis defect warnings on production software
Nathaniel Ayewah, William Pugh, J. David Morgenthaler, John Penix, YuQian Zhou
June 2007 PASTE '07: Proceedings of the 7th ACM SIGPLAN-SIGSOFT workshop on Program analysis for software tools and engineering
Publisher: ACM

Full text available: pdf(171.22 KB) Additional Information: full citation, abstract, references, index terms

Static analysis tools for software defect detection are becoming widely used in practice. However, there is little public information regarding the experimental evaluation of the accuracy and value of the warnings these tools report. In this paper, we ...

Keywords: FindBugs, Java, bug patterns, bugs, false positives, software defects, software quality, static analysis

10   Combined static and dynamic analysis for inferring program dependencies using a pattern language
Inbal Ronen, Nurit Dor, Sara Porat, Yael Dubinsky
October 2006 CASCON '06: Proceedings of the 2006 conference of the Center for Advanced Studies on Collaborative research
Publisher: ACM

Additional Information: full citation, abstract, references, index terms

Full text available: pdf(224.60 KB) htm(2.06 KB)

One of the challenges when examining enterprise applications is the ability to understand the dependencies of these applications on external and internal resources such as database access or transaction activation. Inferring dependencies can be achieved ...

11   Taxonomy of XML schema languages using formal language theory
Makoto Murata, Dongwon Lee, Murali Mani, Kohsuke Kawaguchi
November 2005 ACM Transactions on Internet Technology (TOIT), Volume 5 Issue 4
Publisher: ACM

Full text available: pdf(1.34 MB) Additional Information: full citation, abstract, references, cited by, index terms

On the basis of regular tree grammars, we present a formal framework for XML schema languages. This framework helps to describe, compare, and implement such schema languages in a rigorous manner. Our main results are as follows: (1) a simple framework ...

Keywords: XML, interpretation, schema, tree automaton, validation

12 Unwitting distributed genetic programming via asynchronous JavaScript and XML

Jon Klein, Lee Spector

July 2007 GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation

Publisher: ACM

Full text available: pdf(214.18 KB)   Additional Information: full citation, abstract, references, index terms

The success of a genetic programming system in solving a problem is often a function of the available computational resources. For many problems, the larger the population size and the longer the genetic programming run the more likely the system is ...

Keywords: AJAX, JavaScript, Push, PushGP, XML, networking, stack-based genetic programming

13 XML and relational database management systems: inside Microsoft® SQL Server™ 2005

Michael Rys

June 2005 SIGMOD '05: Proceedings of the 2005 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available: pdf(324.86 KB)   Additional Information: full citation, abstract, references, cited by

Microsoft® SQL Server™ has a long history of XML support dating back to 1999. While first concentrating on enabling the transport of relational data via XML with the SQL Server 2000 release, SQL Server 2005 now additionally provides native ...

14 Building adaptable and reusable XML applications with model transformations

Ivan Kurtev, Klaas van den Berg

May 2005 WWW '05: Proceedings of the 14th international conference on World Wide Web

Publisher: ACM

Full text available: pdf(194.71 KB)   Additional Information: full citation, abstract, references, cited by, index terms

We present an approach in which the semantics of an XML language is defined by means of a transformation from an XML document model (an XML schema) to an application specific model. The application specific model implements the intended behavior of documents ...

Keywords: MDA, XML, XML processing, model transformations, transformation language

15 Programming for XML

Daniela Florescu, Donald Kossmann

June 2006 SIGMOD '06: Proceedings of the 2006 ACM SIGMOD international
        conference on Management of data
Publisher: ACM
Full text available: pdf(29.08 KB) Additional Information: full citation, abstract, index terms

There are many emerging applications for XML. Although there are many
tools availalbe, an open question is the right programming paradigm to
process XML data. Today, the most popular solutions are based on
extensions to existing programming languages ...

16 Towards an enterprise XML architecture

Ravi Murthy, Zhen Hua Liu, Muralidhar Krishnaprasad, Sivasankaran
Chandrasekar, Anh-Tuan Tran, Eric Sedlar, Daniela Florescu, Susan
Kotsovolos, Nipun Agarwal, Vikas Arora, Viswanathan Krishnamurthy
June 2005 SIGMOD '05: Proceedings of the 2005 ACM SIGMOD international
        conference on Management of data
Publisher: ACM

Full text available: pdf(260.60 KB) Additional Information: full citation, abstract, references,
                                                            cited by

XML is being increasingly used in diverse domains ranging from data and
application integration to content management. Oracle provides an
enterprise wide platform for managing all types of XML content. Within the
Oracle database and the application server, ...

17 Dynamic access-control policies on XML encrypted data

Luc Bouganim, Francois Dang Ngoc, Philippe Pucheral
January 2008 ACM Transactions on Information and System Security
        (TISSEC), Volume 10 Issue 4
Publisher: ACM

Full text available: pdf(583.17 KB) Additional Information: full citation, abstract, references,
                                                            index terms

The erosion of trust put in traditional database servers and in Database
Service Providers and the growing interest for different forms of selective
data dissemination are different factors that lead to move the access-
control from servers to clients. ...

Keywords: Access-control, data confidentiality, smartcard, ubiquitous data
management

18 Transforming flash to XML for accessibility evaluations

Shin Saito, Hironobu Takagi, Chieko Asakawa
October 2006 Assets '06: Proceedings of the 8th international ACM SIGACCESS
        conference on Computers and accessibility
Publisher: ACM

Full text available: pdf(336.41 KB) Additional Information: full citation, abstract, references,
                                                            index terms

Rich Internet content, such as Flash and DHTML, has been spreading all
over the net, since it can provide rich and dynamic Web experiences for the
sighted majority. It is obvious that this content is inaccessible for visually
impaired people because ...

Keywords: accessibility, accessibility checker, blind, flash, visually
impaired

19 An evaluation of binary xml encoding optimizations for fast stream
    based xml processing
    R. J. Bayardo, D. Gruhl, V. Josifovski, J. Myllymaki
    May 2004 WWW '04: Proceedings of the 13th international conference on
            World Wide Web
    Publisher: ACM

    Full text available: pdf(255.72 KB)   Additional Information: full citation, abstract, references,
                                                                   cited by, index terms

        This paper provides an objective evaluation of the performance impacts of
        binary XML encodings, using a fast stream-based XQuery processor as our
        representative application. Instead of proposing one binary format and
        comparing it against standard XML ...

        Keywords: XML binary formats, XPath processing

20 Contest of XML lock protocols
    Michael Haustein, Theo Härder, Konstantin Luttenberger
    September 2006 VLDB '06: Proceedings of the 32nd international conference
               on Very large data bases
    Publisher: VLDB Endowment

    Full text available: pdf(1.78 MB)   Additional Information: full citation, abstract, references,
                                                                 index terms

        We explore and compare the performance behavior of lock protocols to be
        used in XML DBMSs (XDBMSs, for short) supporting typical XML document
        processing interfaces. In this paper, we outline 11 protocols proposed in the
        literature, highlight essential ...

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